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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-06-20-26** **Date: 02-02-2019**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
Date of Receipt	:	30-01-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-01-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-06-20-26** **Date: 28-02-2019**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
Date of Receipt	:	30-01-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	31-01-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-06-20-26**	**Date: 02-02-2019**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07	
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054	
Customer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19	
Date of Receipt	:	30-01-2019	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)	
		IS: 2386 :1963(Part - 1,3,4) RA2011	
		IS 2386 Part 1: Particle Size and Shape	
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
		IS 2386 Part 4: Mechanical Properties	
Date of test	:	30-01-2019	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-06-20-26** **Date: 02-02-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.45	_
6	Water Absorption(%)	0.22	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-06-20-26** **Date: 01-02-2019**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Customer Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
Date of Receipt	:	30-01-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-01-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-06-20-26 Date: 01-02-2019

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-06-20-26** **Date: 01-02-2019**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 30-01-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-01-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-06-20-26

Date: 01-02-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-06-20-26**	**Date: 05-02-2019**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07	
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054	
Customer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19	
Date of Receipt	:	04-02-2019	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	04-02-2019	

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	509	612	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	527	648	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	548	672	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.582	568	697	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	20	2.479	589	702	19.5%	Satisfactory	Satisfactory
5	Sunvik	Fe500	25	3.473	598	710	18.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500	32	3.773	621	760	18.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/02/2019

: CP-2019-06-20-26
: Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
: EE(Project)/Ynk Zone/wo/12/2018-19
: 08-02-2019
: Column Concrete
: 150X150X150 mm
: M25 / 7 Days Compressive Strength
: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
: 13/02/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Column Concrete	M25	06/02/2019	13/02/2019	149.90 X 149.12 X 149.48	22353	**9.013**	515.9	23.1	22.9
Column Concrete	M25	06/02/2019	13/02/2019	150.70 X 149.05 X 149.83	22461	**8.482**	516.4	23.0	
Column Concrete	M25	06/02/2019	13/02/2019	151.06 X 151.80 X 151.34	22932	**8.257**	519.8	22.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/03/2019

ID	:	CP-2019-06-20-26
ject Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
ncy	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
mmer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
of Receipt	:	08-02-2019
mmer ID	:	Column Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M25 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	06/03/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Column Concrete	M25	06/02/2019	06/03/2019	149.64 X 149.79 X 150.72	22415	**8.712**	609.3	27.2	27.6
Column Concrete	M25	06/02/2019	06/03/2019	151.29 X 149.83 X 151.00	22669	**8.745**	610.9	26.9	
Column Concrete	M25	06/02/2019	06/03/2019	149.32 X 151.74 X 149.39	22657	**8.409**	649.9	28.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2019-06-20-26 **Date: 14/02/2019**

: Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

: EE(Project)/Ynk Zone/wo/12/2018-19

: 09-02-2019

: Column Concrete

: 150X150X150 mm

: M25 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 14/02/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	M25	07/02/2019	14/02/2019	151.84 X 149.37 X 149.38	22681	**8.342**	528.1	23.3	
	M25	07/02/2019	14/02/2019	149.40 X 150.24 X 151.34	22446	**8.705**	513.7	22.9	22.8
	M25	07/02/2019	14/02/2019	151.63 X 150.99 X 151.31	22894	**8.456**	510.9	22.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2019-06-20-26** **Date: 07/03/2019**

: Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

: EE(Project)/Ynk Zone/wo/12/2018-19

: 09-02-2019

: Column Concrete

: 150X150X150 mm

: M25 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/03/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Column Concrete	M25	07/02/2019	07/03/2019	150.98 X 151.94 X 149.77	22941	**8.712**	626.1	27.3	27.5
Column Concrete	M25	07/02/2019	07/03/2019	149.38 X 150.81 X 149.71	22528	**8.745**	596.6	26.5	
Column Concrete	M25	07/02/2019	07/03/2019	149.80 X 149.73 X 150.11	22428	**8.409**	645.7	28.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/02/2019

: CP-2019-06-20-26
: Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
: EE(Project)/Ynk Zone/wo/12/2018-19
: 18-02-2019
: Column Concrete
: 150X150X150 mm
: M25 / 7 Days Compressive Strength
: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
: 22/02/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Column Concrete	M25	15/02/2019	22/02/2019	149.84 X 150.81 X 149.75	22597	**8.840**	531.2	23.5	23.0
Column Concrete	M25	15/02/2019	22/02/2019	149.79 X 150.08 X 152.00	22480	**9.086**	515.4	22.9	
Column Concrete	M25	15/02/2019	22/02/2019	149.69 X 151.46 X 150.14	22672	**8.333**	511.7	22.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2019-06-20-26** **Date: 15/03/2019**
ject Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
ress	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
mmer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
te of Receipt	:	18-02-2019
mmer ID	:	Column Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M25 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of Test	:	15/03/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Column Concrete	M25	15/02/2019	15/03/2019	151.00 X 150.66 X 150.24	22750	**8.712**	614.9	27.0	27.0
Column Concrete	M25	15/02/2019	15/03/2019	149.57 X 151.91 X 149.60	22720	**8.745**	591.8	26.0	
Column Concrete	M25	15/02/2019	15/03/2019	151.02 X 151.98 X 150.26	22953	**8.409**	643.4	28.0	

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